BRUHAT BANGALORE MAHANAGARA PALIKE
DASARAHALLI ZONE

*Name of Work: **Improvements to A Main & B Main roads of Meenakshi layout, 1st A Cross to 11th A Cross roads of Soundarya Layout in Ward No 14, Bagalagunte***

			Est. Cost Rs				50.00	Lakhs	
Sl	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete and Disposal of debris to the final place of disposal with all lead and lift and as direction by the engineer in charge of the work, lead 4 Kmas per specifications complete as per specifications. MORTH Chapter 3 (P.142/I.19.1 PW, P & IWTD -SR 2016-17)								
		Cum	1	1347.00	1.00	0.30	404.10		
							404.10	170.92	69069.00
2	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.Page No 149/ Item No. 19.64 PWD SR 2016-17								
		Cum	1	1347.00	1.00		1347.00		
							1347.00	5.30	7139.00
3	KSRRB M400-1 For Grading I material construction of **granular sub-base** by providing coarse graded crushed stone aggregates of Granite/ trap/basalt material spreading in uniform layers with motir grader on prepared surface mixing by a mix in place method with rotawater at OMC, and Compacting with vibratory roller to achieve the desired density, complete as per specifications.by mix in a Place method for course Graded Granular Sub Base Material as per 400-2 for grading I material . Page No 155/ Item No. 20.6.1 PWD SR 2016-17								
		Cum	1	1347.00	1.00	0.15	202.05		
							202.05	1518.98	306910.00
4	Providing, laying, spreading and compacting graded stone aggregates to **wet mix macadam** specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. Specification No. 406 with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWD SR 2016-17, P.No.158, I No.20.18)								
	Roads	Cum.	1	1347.00	1.00	0.15	202.05		
							202.05	1768.08	357241.00

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
5	Providing and applying **primer coat** with S.S. Bitumen emulsion on prepared surface of granular base such as WBM, WMM including clearing of road surface and spraying primer at the rate of 0.6 kg / sqm using mechanical means complete as per specifications, with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work.(PWDSR 2016-17, P.No.161, I No.21.6)								
		Sqm	1	1347.00	1.00		1347.00		
							1347.00	27.56	37123.00
6	KSRRB 500-2: Cleaning the existing **black topped surface** with brooms, soft brushes and finally dusting with old gunny bags and/or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. Specification No. KRBS 500-1 MORTH Chapter 5 **Page No. 161/ Item No. 21.2/ PWD SR 2016-17**								
		Sqm	1	1347.00	6.00		8082.00		
			1	240.00	9.00		2160.00		
							10242.00	3.18	32570.00
7	KSRRB 500-7: Providing and applying **tack coat on the prepared black topped** surfaces at 5kg per 10 sqm, heating bitumen in boiler fitted with spray set (Excluding cleaning of road surface) including cost of all Materials, labour, HOM of machineries complete as per specifications. MORTH Chapter 5 Page No. 161/ Item No. 21.7/ PWD SR 2016-17								
		Sqm	1	1347.00	1.00		1347.00		
			1	1347.00	6.00		8082.00		
			1	240.00	9.00		2160.00		
							11589.00	11.66	135128.00
8	Providing and laying **bituminous macadam** on prepared surface with crushed coarse aggregates as per design mix formula for base / binding course including loading of aggregates with F.E. loader, hot mixing of stone aggregates and bitumen in hot mix plant 40 tonne capacity, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by power roller to achieve the desired density, 50/75mm compacted thickness with 3.3% bitumen but excluding the cost of primer/tack coat with lead incl. cost of all materials, labour, HOM of machineries complete as per specifications with 80/100 grade bitumen using 40/60TPH capacity H.M.P with Mechanical paver Gr II (50/75mm) with 3.3% VG-30 Bitumen as per the directions of Engineer-in-charge of the work (PWDSR 2016-17, P.No.162, I No.21.11.6)								
		Cum	1	1347.00	1.00	0.05	67.35		
							67.35	5237.46	352743.00
9	Providing and laying **bituminous concrete** with hot mix plant using crushed aggregates of specified grading, premixed with bituminous binder and filter transporting the hot mix to work site laying with paver finisher to the required grade, level and alignment. rolling with smooth wheeled vibratory and tandem rollers to achieve the desired compaction as per MORTH Speicification clause no 500.9 complete in all respects complete as per specification no 509. using 40/60 TPH Capacity H.M.P With Mechanical paver Gr-II (30 mm to 45 mm) with 6% VG-30 Bitumen (p-165, lt 21.22.6) PWD SR 2016-17								
		Cum	1	1347.00	6.00	0.04	323.28		

	Description of Item	Unit	No	L	B	D	Qty	Rate	Amount
			1	240.00	9.00	0.04	86.40		
							409.68	7270.54	2978595.00
10	**oad marking** with hot applied thermoplastic compound with Reflectrising Glass beads on bituminous surface-Providing and laying of hot applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads aa per IRC : 35, the finished surface to be level uniform and free from streacks and holes complete as per specifications. (Page No.185, I No.24.15 of KPWD SR 2016-17)								
		Sqm	2	1347.00	0.15		404.10		
			2	240.00	0.15		72.00		
							476.10	542.72	258389.00
							Sub Total		4534907.00
	Quality control Test Charges 1%								50000.00
	Miscellaneous and Unforessen other Charges 8%								415093.00
								Total	5000000.00
	Ruppes.Fifty Lakhs Only								

CERTIFICATE:-

1 The Work spot has been inspected and the work is found to be necessary
2 The Estimate is prepared as per the PW,P & IWTD -SR-2016-17
3 The Provision made in estimate are adequate and essential.
4 This area comes under BBMP limits.
5 This work is not included in any other work taken up

Assistant Engineer
Ward No 14

Assistant Executive Engineer
T. Dasarahalli Sub-Division
B.B.M.P

Executive Engineer
Dasarahalli Division
B.B.M.P. Bangalore.

ನಂ. JE/D/AE/05/17-18 ದಿನಾಂಕ : 19/4/17
ರೂ. Rupees Fifty Lakhs Only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ. ಬೆಂಗಳೂರು.

ನಂ.CE/DZ/TS/34/17-18 ದಿನಾಂಕ : 24/04/2017
ರೂ. Rupees fifty lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ತಾಂತ್ರಿಕ ಸಹಾಯಕರು